

P a t e n t c l a i m s

1.

A rotary distributor for use in spreading solid particles and/or liquid, comprising a
5 round distributor housing (1), having outlet holes (2) arranged peripherally in the
horizontal bottom of the housing and connected to outlet pipes (3), a first supply pipe
(4) arranged centrally in the bottom of the distributor housing (1) for the supply of
liquid under pressure and connected to a vertical, rotatably supported hollow rotor shaft
(5) in flow communication with a first transverse hollow rotor arm (6) which has at least
10 one angled, downward-directed nozzle (7) that is level with the outlet holes (2),
characterised in that the distributor housing (1) comprises a second supply pipe (10)
arranged centrally in the top of the distributor housing (1) for the supply of solid
particles and/or liquid and connected to the vertical, rotatably supported hollow rotor
shaft (5), in flow communication with a second transverse hollow rotor arm (11) which
15 has at least one downward-directed opening (12) that is level with the outlet holes (2),
and that the rotor shaft (5) comprises a dividing wall between the two rotor arms (6) and
(11) which ensures two separate streams.

2.

20 A rotary distributor according to claim 1, characterised in that a counterweight (13) is
provided on the diagonally opposite side of the rotor axis relative to the second rotor
arm (11).

3.

25 A rotary distributor according to claim 2, characterised in that the counterweight (13) is
made in the form of a third rotor arm in flow communication with the second supply
pipe (10) and the hollow rotor shaft (5), and which is equipped with at least one
downward-directed opening which is level with the outlet holes (2).

30 4.

A rotary distributor according to any one of claims 1-3, characterised in that the
distributor housing (1) further comprises an upwardly open annular channel (1a) with
bottom (1b) and outer and inner side walls (1c, 1d), in the bottom (1b) of which the
outlet holes (2) are equidistantly arranged, and between whose side walls (1c, 1d) the
35 nozzle/nozzles (7) and the opening (12) project down, each nozzle (7) being surrounded
by and connected to a guard (8) having a U-shaped cross-section with its bottom (8a)

uppermost, and side walls (8b) which project into the ring channel (1a) on either side of the nozzle (7).

5.

- 5 A method for wet sowing, characterised by supplying a rotary distributor according to claim 1 with liquid under pressure to a first supply pipe (4), feeding seed corn to a second supply pipe (10) and passing the stream of liquid and seed corn out through the outlet pipes (3) onto a field, whereby the liquid flowing out through the nozzle (7) sets the rotor shaft (5) in motion and seed corn and liquid are distributed evenly across the outlet holes (2).

6.

- 15 A method for distributing solid particles, characterised by feeding the solid particles with a gas stream to a second supply pipe (10) in a distributor according to claim 1 and rotating the rotor shaft (5) mechanically, whereby the rotation and the gas stream cause the solid particles to be distributed evenly over the outlet holes (2) and flow out through the outlet pipes (3).

7.

- 20 The use of a rotary distributor according to any one of claims 1-4 for wet sowing.

8.

- The use of a rotary distributor according to one of claims 1-3 for dry sowing.